

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number  
**WO 2005/056975 A1**

(51) International Patent Classification<sup>7</sup>: **E21B 19/16**  
(21) International Application Number:  
PCT/NO2004/000380

(22) International Filing Date:  
10 December 2004 (10.12.2004)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:  
20035508 11 December 2003 (11.12.2003) NO

(71) Applicant (for all designated States except US): **VIKING  
ENGINEERING AS** [NO/NO]; P.O. Box 22, N-4661  
Kristiansand (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HALSE,  
Helge-Ruben** [NO/NO]; Veslefrikkveien 2, N-4638  
Kristiansand (NO).

(74) Agent: **HÅMSØ PATENTBYRÅ ANS**; P.O. Box 171,  
N-4302 Sandnes (NO).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

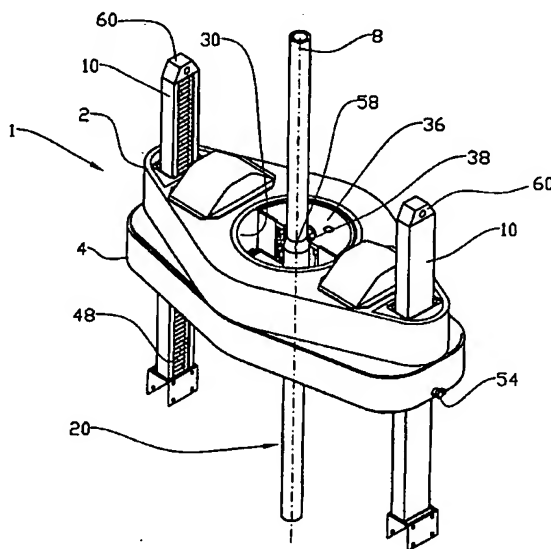
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

[Continued on next page]

(54) Title: **METHOD FOR DISCONNECTING A PIPE LENGTH**



(57) Abstract: A method of a power tong (2) for use in the pipe make-up and pipe break-out of pipe lengths (22) during drilling in the ground as it is known from, for example, the recovery of petroleum, the power tong (2) being part of an assembly (1) which includes a back-up tong (4) movable relative to the power tong (2) in the longitudinal direction of the pipe length (22), and at least one guide column (10). The tong is releasably connected to a chassis and is arranged to be lifted up from a drill floor to a level higher up in order to break out a pipe from a pipe string, should the pipe string get stuck in the borehole.

WO 2005/056975 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*